

ABSTRACT

Provided is a compressed anti-solvent technique for manufacture of insulin-containing powders for pulmonary delivery. The insulin is processed in a cosolvent system including two or more mutually soluble organic solvents. Also provided are powders manufacturable by the manufacture method, including powders of substantially pure insulin and powders including a biocompatible polymer for pulmonary sustained insulin release applications. Also provided are packaged products including insulin-containing powder in a container that is receivable by and operable with a dry powder inhaler to produce an aerosol including dispersed insulin-containing particles when the inhaler is actuated.